

REMARKS

Reconsideration of the application in light of the amendments and the following remarks is respectfully requested.

Status of the Claims

Claims 1-12 are pending. Claims 1, 2 and 4 have been amended. Claims 10-12 have been added. No new matter has been added.

Applicant appreciatively acknowledges the Examiner's indication of allowable subject matter in claims 2-4. Claim 4 has been rewritten in independent form, reciting the features of its base claim. Claim 1 has been amended to recite a feature of dependent claim 2. As detailed below, Applicant submits amended claim 1 is patentable over the prior art.

Added claim 9 recites the feature of original claim 4. Added claims 11-12 are supported by the Specification at, generally, page 4, lines 17-23. Claims 2-3, 5-12 depend from claim 1, and Applicant submits that the claims are in condition for allowance.

Rejection Under 35 U.S.C. § 102

Claims 1 and 5 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,724,278 to Smith. Claim 1 has been amended to recite that "said antenna filter is a resonator-type filter with an output resonator cavity having at least two parallel outputs." As demonstrated below, Applicant submits that Smith does not disclose this feature of amended claim 1. Claim 5 depends from claim 1.

The Examiner contends that Smith discloses all the claimed features of claim 1 including an antenna filter having two parallel outputs, the first of which is coupled to an input of a low-noise amplifier (LNA) and the second of which is coupled to a bypass path. The Examiner also contends that Smith discloses a second LNA in the bypass path as recited in claim 5.

Applicant submits that Smith discloses a multi-standard-duplex filtering scheme for mobile telecommunication systems, where the receive path has an array of filter elements each having different frequency bands in accordance with mobile telecommunication standards. Smith discloses that an incoming signal from antenna 30 is passed to all the filter elements 62A, 64A, 66A of filter array 60A. An output port for each of the filter elements is coupled to a respective LNA 80B, 80B', 80B'', which, in turn, are connected to switch 90. (Smith, column 3, lines 58-67 and Figure 4.) The Examiner is reading the filter array 60A disclosed in Smith as being an "antenna filter having at least two parallel outputs" as recited in original claim 1.

Amended claim 1 now recites "said antenna filter is a resonator-type filter with an output resonator cavity having at least two parallel outputs." In contrast, Smith discloses an array of filter elements, where each element's output is connected in parallel with the other filter elements' outputs. Thus, Smith does not disclose each and every feature of amended claim 1. Therefore, Smith does not anticipate amended claim 1. Claim 5 depends from claim 1, and is patentable over Smith for at least the same reasons as amended claim 1. Withdrawal and reconsideration is requested.

Rejection Under 35 U.S.C. § 103

Claims 6-9 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Smith in view of Applicant's Admitted Prior Art ("AAPA"). The Examiner contends that Smith and the AAPA discloses or suggests the features of claims 6-9. Specifically, the Examiner acknowledges that Smith does not disclose a changeover switch being implemented by PIN diodes, MEMS, MMIC, or relays, and that the AAPA discloses such technology.

Claims 6-9 depend from amended claim 1, and recite the features of claim 1 as if set forth therein in their entirety. Applicant submits that Smith and the AAPA neither discloses nor

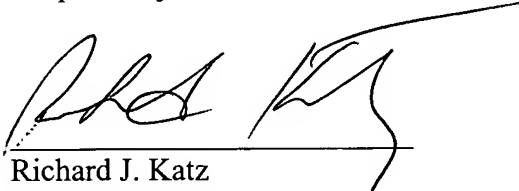
suggests, singly or in combination, the feature of an antenna filter that is "a resonator-type filter with an output resonator cavity having at least two parallel outputs." Therefore, the Examiner has not met the burden to establish a *prima facie* case of obviousness with respect to claims 6-9. Withdrawal and reconsideration is requested.

CONCLUSION

Each and every point raised in the Office Action dated November 16, 2004 has been addressed on the basis of the above amendments and remarks. In view of the foregoing it is believed that claims 1-12 are in condition for allowance and it is respectfully requested that the application be reconsidered and that all pending claims be allowed and the case passed to issue.

If there are any other issues remaining which the Examiner believes could be resolved through a Supplemental Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at the telephone number indicated below.

Respectfully submitted,



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